Amendments to the Claims

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) A method for virtualizing access to native resources, the method comprising the steps of:

(a)-receiving a request to access a native resource from a process executing within a context of an isolation environment including an application isolation layer and a user isolation layer, the request including a virtual name for the native resource;

(b) determining that a rule action <u>specifying of</u> remap is associated with the virtual name included in the received request;

(e) forming a literal name for the native resource, the literal name identifying a literal native resource of the same type as the requested resource; and

(d) issuing to the operating system a request to access the native resource, the request including the determined literal name for the native resource.

- 2. (Currently amended) The method of claim 1 wherein receiving a request to access a native resource step (a) comprises: receiving a request from a process executing in the context of an isolation environment to access a named system object, the request including a virtual name for the system object.
- 3. (Currently amended) The method of claim 2 wherein <u>forming a literal name further step (c)</u> comprises:

(c-1)-determining a rule associated with the virtual name included in the received request; and

(e-2)-using the determined rule to form a literal name for the system object that identifies a literal system object.

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- 4. (Currently amended) The method of claim 1 wherein receiving a request to access a native resource step (a) comprises: receiving a request from a process executing in the context of an isolation environment to access a file system element, the request including a virtual name for the file system element.
- 5. (Currently amended) The method of claim 4 wherein <u>forming a literal name further step (c)</u> comprises:
- (e-1)-determining a rule associated with the virtual name included in the received request; and
- (e-2)-using the determined rule to form a literal name for the file system element that identifies a literal file system element.
- 6. (Currently amended) The method of claim 1 wherein receiving a request to access a native resource step (a) comprises: receiving a request from a process executing in the context of an isolation environment to access a registry key, the request including a virtual name for the registry key.
- 7. (Currently amended) The method of claim 6 wherein <u>forming a literal name further step (c)</u> comprises:
- (e-1)-determining a rule associated with the virtual name included in the received request; and
- (e-2)-using the determined rule to form a literal name for the registry key that identifies a literal registry key.
- 8. (Currently amended) The method of claim 1 wherein receiving a request to access a native resource step (a) comprises: receiving a request from a process executing in the context of an isolation environment to access one of a window and a window class, the request including one of a virtual name for the window and a virtual name for the window class.
- 9. (Currently amended) The method of claim 8 wherein <u>forming a literal name further step (c)</u> comprises:

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(c-1) determining a rule associated with the virtual name included in the received request;

and

(e-2) using the determined rule to form a literal name for the one of a virtual name for the

window and a virtual name for the window class that identifies one of a literal window name and

a literal window class.

10. (Currently amended) The method of claim 1 wherein forming a literal name further step (c)

comprises:

(c-1)-accessing a rules engine to determine a rule associated with the virtual name

received in the request; and

(c-2) forming a literal name for the native resource responsive to the determined rule, the

formed literal name identifying a literal native resource of the same type as the requested

resource.

11. (Currently amended) The method of claim 1 further comprising: the step of receiving a

handle from the operating system identifying the accessed object.

12. (Currently amended) The method of claim 11 further comprising: the step of transmitting the

handle to the process.

13. (Currently amended) The method of claim 1 wherein forming a literal name step (c) further

comprises: determining, by the remap rule, the literal name of the native resource for the virtual

name of the native resource.

14. (Currently amended) A computer implemented apparatus provided by an operating system

executing on a processor of a computer and virtualizing access to native resources, the apparatus

comprising:

a hooking mechanism receiving a request to access a native resource from a process

executing in the context of an isolation environment including an application isolation layer and

a user isolation layer, the request including a virtual name for the native resource;

a rules engine storing a rule action associated with the virtual name included in the

received request, the rule action specifying remap;

a name virtualization engine forming a literal name for the native resource, the formed

literal name identifying a literal native resource of the same type as the requested resource; and

an interface of an operating system executing on a processor of a computer, the interface

requesting access to the identified literal native resource.

15. (Original) The apparatus of claim 14 wherein the hooking mechanism intercepts a request to

open a native resource.

16. (Original) The apparatus of claim 14 wherein the hooking mechanism intercepts a request to

create a native resource.

17. (Cancelled).

18. (Currently amended) The apparatus of claim 14 17 wherein the rules engine comprises a

database.

19. (Currently amended) The apparatus of claim 14 17. wherein the rule engine stores a rule

action comprises a rule to determine the literal name of the native resource from the virtual name

of the native resource.

20. (Original) The apparatus of claim 14 wherein the hooking mechanism comprises a file

system filter driver.

21. (Original) The apparatus of claim 14 wherein the hooking mechanism comprises a mini-

filter.

22. (Original) The apparatus of claim 14 wherein a native file system comprises the hooking

mechanism.

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